CRYOGENIC FIXED ATTENUATOR

3 dB SMP Cryogenic Fixed Attenuator

2 W | DC–18 GHz | 50 Ω

For compact cryogenic RF systems, high-density microwave assemblies, quantum computing applications, and dilution refrigerator signal chains.



FREQUENCY	POWER	IMPEDANCE
DC–18 GHz	2 W	50 Ω

- Suitable for cryogenic environments
- 3 dB nominal attenuation
- ±0.6 dB attenuation tolerance
- VSWR ≤ 1.45
- Compact SMP interface
- Non-magnetic option available on request
- RoHS compliant

ELECTRICAL PERFORMANCE

Frequency Range	**DC–18 GHz**
Nominal Attenuation	**3 dB**
Attenuation Tolerance	**±0.6 dB**
VSWR Max	**1.45 : 1**
Impedance	**50 Ω**
Power Rating	**2 W**

MECHANICAL & MATERIALS

Connector Interface	**SMP-JK**
Body Material	**Brass, gold-plated**
Connector Outer Contact	**Brass, gold-plated**
Male Inner Contact	**Beryllium copper, gold-plated**
Female Inner Contact	**Beryllium copper, gold-plated**
Size	**Ø7.1 × 19.4 mm**
Format	**Compact SMP attenuator structure**

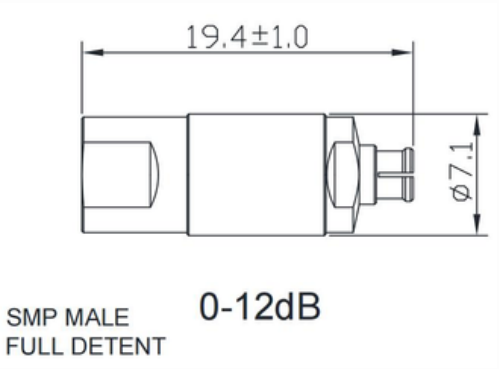
Typical Applications

Cryogenic RF systems, quantum computing applications, dilution refrigerator systems, and low-temperature microwave measurement chains.

P/N: VST-QU-SMP030202-18G

SMP Cryogenic Fixed Attenuator

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline SMP cryogenic fixed attenuator**
Body Format	**0–12 dB body format**
Length	**19.4 ± 1.0 mm**
Diameter	**Ø7.1 mm**

COMPLIANCE & CONSTRUCTION

Product Type	**SMP Cryogenic Fixed Attenuator**
Impedance	**50 Ω**
Compliance	**RoHS**
Configuration	**Non-magnetic option available on request**

ORDERING INFORMATION

PART NUMBER

VST-QU-SMP030202-18G

DESCRIPTION

3 dB SMP Cryogenic Fixed Attenuator, 2 W, DC–18 GHz, 50 Ω

TYPICAL USE

Light signal attenuation for compact cryogenic RF paths, quantum computing assemblies, dilution refrigerator signal chains, and high-density RF packaging.

CUSTOMIZATION

Custom attenuation values, marking options, and non-magnetic configurations available on request.